IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: MOORE, et al.

Application Number: 09/084,491

Filed: May 27, 1998

Title: Tissue Plasminogen Activator-Like Protease

Group Art Unit: 1652

Examiner: E. Slobodyansky

Attny. Docket No. PF378

<u>DECLARATION OF PAUL MOORE, REINHARD EBNER</u> <u>AND STEVEN RUBEN UNDER 37 C.F.R. § 1.131</u>

Commissioner of Patents Washington, D. C. 20231

Sir:

Each of the inventors in the captioned application, Paul Moore, Reinhard Ebner, and Craig Rosen declare and state as follows:

- 1. I am an inventor of the subject matter described and claimed in the above-identified U.S. patent application, which is assigned to Human Genome Sciences, Inc. (HGS). The work described below occurred at HGS which is located in Rockville, Maryland, USA.
- 2. The above-identified patent application relates to the isolation and characterization of a cDNA encoding a novel gene product designated Tissue Plasminogen Activator-Like Protease ("t-PALP").
- 3. At least fifty contiguous nucleotides of nucleotide positions 630 to 750 of SEQ ID NO:1, which is disclosed in the captioned application, were determined at HGS prior to May 12, 1997.
- 4. Attached hereto as Exhibit A is a redacted printout of data from IRIS (the HGS electronic documentation system), identifying a specific sequencing contig designated "HMSIB42X" obtained by sequencing the cDNA clone designated "HMSIB42." The "Date Sequenced" redacted from Exhibit A is prior to May 12, 1997.

- 5. The HGS clone identifier was used to identify the t-PALP cDNA clone HMSIB42 when it was deposited with the American Type Culture Collection (ATCC) on May 8, 1997, and later was assigned ATCC Accession No. 209023. (See, Exhibit B).
- 6. At least fifty contiguous nucleotides of nucleotide positions 763 to 883 as disclosed in Exhibit A correspond to the sequence disclosed at nucleotide positions 630 to 750 in Figure 1 of the above-identified application, a copy of which is attached herewith as Exhibit C. The cDNA clone HMSIB42 (ATCC Deposit No.209023) and Exhibit A both contain the 50 contigous nucleotides of 630-750 of SEQ ID NO:1 shown in the aboveidentified application (Exhibit C).
- 7. I declare further that all statements made in this Declaration are of my own knowledge and are true and that all statements made on information and belief are believed to be true and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: 1/25/01	Pani A. Moore	
	Paul A. Moore	

Dated: 01/25/2601 Reinhard Ebner

Steven M. Ruben

HGS

Sequence Information

Gene Name:

Library Name:

Group ID: Lab Sequenced: HGS Date Sequenced:

Lab Scored: HGS

Previous Class:

In Group:

Class:

Sequence ID: HMSIB42X

HGS Code:

Library Catalog:

Search Results

Date Scored:

Sequence

HMSIB42X DEFINITION LOCUS ORIGIN

121 181

241

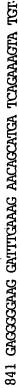
301 361 421

481

541601661

721 781 TACCATGATG GIGATCATCA TTGCCATCGG AGCTGGCATC ATCTTGGGCT ACTCCTACAA

Human Genome Sciences, Inc. Sequence Worksheet HMSIB42X:



1861

2401

Sequence Notes



American Type Culture Collection

12301 Parklawn Drive • Rockville, MD 20852 USA • Telephone: 301-231-5519 or 231-5532 • FAX: 301-816-4366

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT ISSUED PURSUANT TO RULE 7.3
AND VIABILITY STATEMENT ISSUED PURSUANT TO RULE 10.2

May 10 1197

To: (Name and Address of Depositor or Attorney)

HOS PATENT DEPT.

Human Genome Sciences, Inc. Attn: Robert H. Benson - 9410 Key West Avenue

9410 Key West Avended Rockville, MD 20850

Deposited on Behalf of: Human Genome Sciences, Inc. (Docket Nos. PS029 and PF378)

Identification Reference by Depositor:

ATCC Designation

DNA Plasmid HMS1B42

209023

The deposits were accompanied by: __ a scientific description _a proposed taxonomic description indicated above.

The deposits were received May 8, 1997 by this International Depository Authority and have been accepted.

AT YOUR REQUEST:

 \underline{X} We will inform you of requests for the strains for 30 years.

The strains will be made available if a patent office signatory to the Budapest Treaty certifies one's right to receive, or if a U.S. Patent is issued citing the strains, and ATCC is instructed by the United States Patent & Trademark Office or the depositor to release said strains.

If the cultures should die or be destroyed during the effective term of the deposit, it shall be your responsibility to replace them with living cultures of the same.

The strains will be maintained for a period of at least 30 years from date of deposit, or five years after the most recent request for a sample, whichever is longer. The United States and many other countries are signatory to the Budapest Treaty.

The viability of the cultures cited above was tested May 15, 1997. On that date, the cultures were viable.

International Depository Authority: American Type Culture Collection, Rockville, Md. 20852 USA

Signature of person having authority to represent ATCC:

Barbara M. Hailey, Administrator, Patent Depository

Date: May 15, 1997

824/9

Figure 1 t-PALP 1/3

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### Figure 1 t-PALP 2/3

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	ACTCCTGGGGCCTGAGCCCCCCCAGTGGGCAGGAGCCCCATGCAGACACTGGTGCAGGACA	960
		263
260	TPGA*	
	GCCCACCCTCCTACAGCTAGGAGGAACTACCACTTTGTGTTCTGGTTAAAACCCTACCAC	1020
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1081	AGGGTAAGGCTGGGTAGGGTCCTAACAGTGCTCCTTGTCCATCCCTTGGAGCAGATTTTG	1140
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1141	TCTGTGGATGGAGACAGTGGCAGCTCCCACAGTGATGCTGCTAAGGGCTTCCAAACA	1200
1201	TTGCCTGCACCCCTGGAACTGAACCAGGGATAGACGGGGAGCTCCCCCAGGCTCCTCTGT	1260
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1261	GCTTTACTAAGATGGCTCAGTCTCCACTGTGGGCTTGAGTGGCATACACTGTTATTCATG	1320
1201	GC1111/C1111C1111C1111C111C111C111C111C1	
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1321	GTTAAGGTAAAGCAGGTCAAGGGATGGGTT	
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	TGGGATGGAACTCCCTACTGACCTCTGACAACTGGAAACGAGTTTGTACTGAAGTCAGAA	1440
1381	TGGGATGGAACTCCCTACTGACCTCTGACAACTGGATAAGTGGATAAGT	
	CTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGCTGGTATGCTTCAGCTTGCTGGCAAT	1500 .
1441	CTTTGGGTTGGGAATGAGATCTAGGTTGTGGCTGCTGGTATGGTTGGGTTGGGAATGAGATCTAGGTTGTGGGTTGGGTGGTGGTGGTGGTGGTGGTGGTGG	
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	GATGTGCCTTGACAACCGTGGGCCAGGCCTGGGCCCAGGGACTCTTCCTGTTTCATAAGG	1560
1501	GATGTGCCTTGACAACCGTGCGCCCAGGCCCAGGCACTGTTTTTTTT	
		1620
1561	AAAGGAAGAATTGCACTGAGCATTCCACTTAGGAAGAGGATAGAGAAGGATCTGCTCCGC	
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1621	CTTTGGCCACAGGAGCAGAGCAGACCTGGGATGCCCCAGTTTCTCTTCAGGGATGGAT	1000
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1681	'GTGACCTGTCTTCATTTTGCACAGGTAAGAGAGTAGTTAGCTAACCTATGGGAATTATAC	1/40
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.1981	AGGAAAAAGTGACTTGCCCAAGGTCGTAAGCAAGCTACTGGCATGGCAAGAGCCCAGCTT	
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2041	CCTGACGGAGCGCAACATTTCTCCACTGCACTGTGCTAGCAGCTCAGCAGGGCCTCTAAC	4100
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### Figure 1 t-PALP 3/3

2160	CTGTGATGTCACACTCAAGAGGCCTTGGCAGCTCCTAGCCATAGAGCTTCCTTTCCAGAA	2101
2220	CCCTTCCACTGCCCAATGTGGAGACAGGGGTTAGTGGGGGCTTTCTATGGAGCCATCTGCT	2161
2280	TTGGGGACCTAGACCTCAGGTGGTCTCTTGGTGTTAGTGATGCTGGAGAAGAGAATATTA	2221
·	CTGGTTTCTACTTTTCTATAAAGGCATTTCTCTATAAAAAAAA	2281